WHAT IS CLAIMED IS:

A magnesium ammonium phosphate cement preparation comprising: 1 1. 2 a powder mixture having molar quantities of the components calcium (Ca), 3 magnesium (Mg) and orthophosphate (P) in the mixture in the ranges 1 < Ca/P < 1.5 and 4 Mg/P < 0.5; and 5 an ammonium salt. The preparation according to claim 1, wherein the ammonium salt 1 2. 2 comprises an aqueous solution having a pH in the range from 7 to 12. 1 3. The preparation according to claim 1, wherein the ammonium salt is present in the powder mixture at molar quantity of ammonium (NH₄) less than 0.5. 2 1 4. The preparation according to claim 1, wherein the powder mixture comprises α/β -tertiary calcium phosphate (α/β -TCP). 2 1 5. The preparation according to claim 4, wherein the powder mixture further comprises MgHPO₄ • 3 H₂O. 2 1 The preparation according to claim 5, wherein the powder mixture 2 further comprises Mg₃(PO₄)₂. 7. The preparation according to claim 1, wherein the powder mixture 1 2 comprises (NH₄)₂SO₄. 1 8. The preparation according to claim 1, wherein the powder mixture 2 further comprises KH₂PO₄. The preparation according to claim 1, wherein the powder mixture 1 9. 2 further comprises Na₂HPO₄. The preparation according to claim 1, further comprising SrCO₃. 1 10. 1 The preparation according to claim 10, wherein the SrCO₃ is present in 11. 2 the range of 0.01 to 10 wt. % based on the total weight of the preparation. The preparation according to claim 10, wherein the SrCO₃ is present in 1 12. 2 the range of 0.1 to 5 wt.% based on the total weight of the preparation.

13.	The preparation according to claim 1, further comprising ZnO.	
14.	The preparation according to claim 1, wherein the powder mixture	
further comprises Ca ₂ NaK(PO ₄) ₂ and/or CaKPO ₄ .		
15.	The preparation according to claim 1, further comprising a fluoride.	
16.	The preparation according to claim 1, further comprising a	
pharmaceutical and/or a bioactive active ingredient.		
17.	The preparation according to claim 16, wherein the pharmaceutical	
and/or a bioactive active ingredient comprises a therapeutic dose of a component selected		
from the group consisting of antibiotics, cytostatic agents, analgesics, disinfectants, growth		
factors, proteins or elastin inhibitors.		
18	A magnesium ammonium phosphate cement preparation comprising:	
	wder mixture comprising α -TCP, β -TCP, MgHPO4 • 3 H ₂ O, KH ₂ PO ₄ and	
_	wdof mixture comprising a-1 cr, p-1 cr, wight 04 3 1120, ktr21 04 and	
	nmonium salt.	
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19.	The preparation according to claim 18, wherein the powder mixture	
further comprises SrCO ₃ .		
20.	The preparation according to claim 19, wherein the SrCO ₃ is present in	
	o 10 wt.% based on the total weight of the preparation.	
a quantity of o.o. to	, to way, cases on the total weight of the propagation	
21.	The preparation according to claim 18, further comprising ZnO.	
22.	The preparation according to claim 18, wherein the powder mixture	
further comprises C	a ₂ NaK(PO ₄) ₂ and/or CaKPO ₄ .	
22		
23.	The preparation according to claim 18, further comprising a fluoride.	
24.	The preparation according to claim 18, further comprising a	
pharmaceutical and/or a bioactive active ingredient.		
25.	The preparation according to claim 24, wherein the pharmaceutical	
	ctive ingredient comprises a therapeutic dose of a component selected	
	further comprises Comparises Comparises Comparises Comparises Comparison of the group construction of the group constructors, proteins or comparison or comparison of the group constructors, proteins or comparison or comparison of the group constructors, proteins or comparison or comparison of the group constructors, proteins or comparison or comparison of the group constructors, proteins or comparison or comparis	

4	factors, proteins or elastin inhibitors.		
1	26.	A magnesium ammonium phosphate cement preparation comprising:	
2	a pov	vder mixture comprising α-TCP, β-TCP, (NH ₄) ₂ SO ₄ , KH ₂ PO ₄ and	
3	Na ₂ HPO ₄ ; and		
4	a maş	gnesium salt.	
1	27.	The preparation according to claim 26, wherein the magnesium salt is	
2	MgHPO ₄ • 3 H_2O .		
1	28.	The preparation according to claim 26, wherein the powder mixture	
2	further comprises SrCO ₃ .		
1	29.	The preparation according to claim 28, wherein the SrCO ₃ is present at	
2	0.01 to 10 wt.% based on the total weight of the preparation.		
1	30.	The preparation according to claims 26, further comprising ZnO.	
1	31.	The preparation according to claims 26, wherein the powder mixture	
2	further comprises Ca ₂ NaK(PO ₄) ₂ and/or CaKPO ₄ .		
1	32.	The preparation according to claim 26, further comprising a fluoride.	
1	33.	The preparation according to claim 26, further comprising a	
2	pharmaceutical and/or a bioactive active ingredient.		
1	34.	The preparation according to claim 33, wherein the pharmaceutical	
2	and/or a bioactive active ingredient comprises a therapeutic dose of a component selected		
3	from the group consisting of antibiotics, cytostatic agents, analgesics, disinfectants, growth		
4	factors, proteins or elastin inhibitors.		
1	35.	A magnesium ammonium phosphate cement preparation comprising:	
2	a pov	vder mixture comprising α -TCP, β -TCP, primary or secondary	
3	ammonium phosphate, KH ₂ PO ₄ and Na ₂ HPO ₄ ; and		
4	a mag	gnesium salt.	

from the group consisting of antibiotics, cytostatic agents, analgesics, disinfectants, growth

1	36.	The preparation according to claim 35, wherein the magnesium salt is	
2	MgHPO ₄ • 3 H_2O .		
1	37.	The preparation according to claim 35, wherein the powder mixture	
2	further comprises SrC	CO_3 .	
1	38.	The preparation according to claim 37, wherein the SrCO ₃ is present at	
2	0.01 to 10 wt.% based	d on the total weight of the preparation.	
1	39.	The preparation according to claim 35, further comprising ZnO.	
1	40.	The preparation according to claim 35, wherein the powder mixture	
2	further comprises Ca ₂ NaK(PO ₄) ₂ and/or CaKPO ₄ .		
1	41.	The preparation according to claim 35, further comprising a fluoride.	
1	42.	The preparation according to claim 35, further comprising a	
2	pharmaceutical and/or a bioactive active ingredient.		
1	43.	The preparation according to claim 42, wherein the pharmaceutical	
2	and/or a bioactive active ingredient comprises a therapeutic dose of a component selected		
3	from the group consisting of antibiotics, cytostatic agents, analgesics, disinfectants, growth		

factors, proteins or elastin inhibitors.